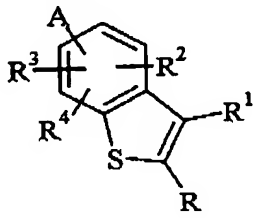
Amendments to the Claims

1. (Currently amended): ~~The~~ A compounds of Formula I:



I

where:

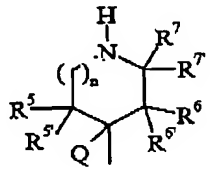
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



(i)

n is 0, or 1, ~~or 2~~;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

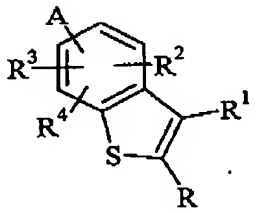
$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) ~~when n is 1 or 2,~~ at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

2. (Currently amended): A pharmaceutical formulation which comprises, in association with a pharmaceutically acceptable carrier, diluent or excipient, a compound of Formula I:



I

where:

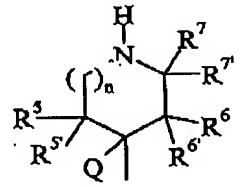
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



(i)

n is 0, 1, or 2;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

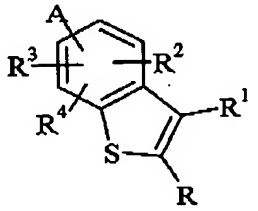
$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) when n is 1 or 2, at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

3. (Currently amended): A method for increasing activation of the 5-HT_{2C} receptor in mammals, comprising administering to a mammal in need of such activation a pharmaceutically effective amount of a compound of Formula I:



I

where:

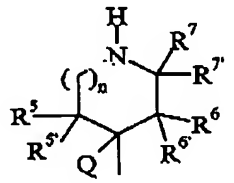
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



(i)

n is 0, 1, or 2;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

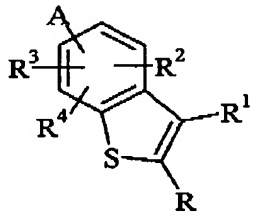
$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) when n is 1 or 2, at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

4. (Currently amended): A method for the treatment of obesity in mammals, comprising administering to a mammal in need of such treatment an effective amount of a compound of Formula I:



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where:

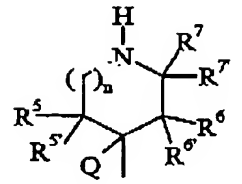
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



(i)

n is 0, 1, or 2;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

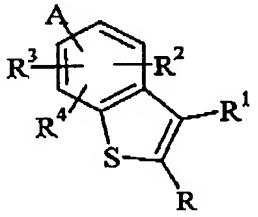
$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) when n is 1 or 2, at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

5. (Currently amended): A method for the treatment of depression in mammals, comprising administering to a mammal in need of such treatment an effective amount of a compound of Formula I:



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where:

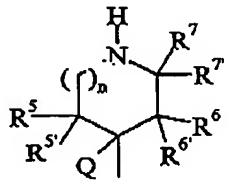
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



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n is 0, 1, or 2;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) when n is 1 or 2, at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

6. (Previously presented): The method of Claim 3 where the mammal is human.

7. (Previously presented): The method of Claim 4 where the mammal is human.

8. (Previously presented): The method of Claim 5 where the mammal is human.

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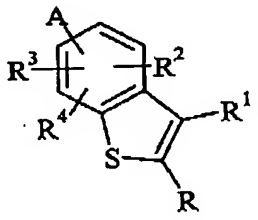
9. (Currently amended): A method for the treatment of obsessive compulsive disorder in mammals, comprising administering to a mammal in need of such treatment an effective amount of a compound of Formula I~~, of Claim 1, or a pharmaceutically acceptable acid addition salt thereof.~~



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where:

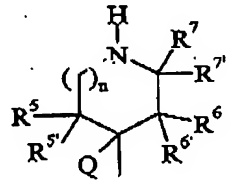
R is hydrogen, halo, trifluoromethyl or C_1-C_6 alkyl;

R^1 is hydrogen, halo, trifluoromethyl, phenyl, or C_1-C_6 alkyl;

R^2, R^3, and R^4 are independently hydrogen, halo, trifluoromethyl, cyano, C_1-C_4 alkoxy, C_1-C_4 alkoxycarbonyl, C_1-C_6 alkyl, C_1-C_6 alkyl substituted with a substituent selected from the group consisting of C_1-C_4 alkoxy and hydroxy, or -C(O)NHR^9;

R^9 is C_1-C_8 alkyl where the alkyl chain is optionally substituted with a substituent selected from the group consisting of phenyl and pyridyl;

A is attached at either the 4- or 7-position of the ~~benzofuran~~ benzothiophene nucleus and is an amine of formula:



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n is 0, 1, or 2;

R^5, R^6, and R^7 are independently hydrogen or C_1-C_4 alkyl;

Q is hydrogen;

$R^{5'}$ is hydrogen or methyl, provided that $R^{5'}$ may be methyl only when R^5 is other than hydrogen, or $R^{5'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{6'}$ is hydrogen or methyl, provided that $R^{6'}$ may be methyl only when R^6 is other than hydrogen, or $R^{6'}$ and Q taken together with the carbon atoms to which they are attached form a double bond;

$R^{7'}$ is hydrogen or methyl, provided that $R^{7'}$ may be methyl only when R^7 is other than hydrogen;

or a pharmaceutically acceptable acid addition salts thereof, subject to the following provisos:

a) when n is 1 or 2, at least one of R^5, R^6, and R^7, must be other than hydrogen; and

b) no more than two of R^5, $R^{5'}$, R^6, $R^{6'}$, R^7, and $R^{7'}$ may be other than hydrogen.

10. (Previously presented): The method of Claim 9 where the mammal is human.

11. (Currently amended): A compound ~~of~~ according to Claim 1 where A is attached at the 7-position of the ~~benzofuran~~ benzothiophene nucleus.

12. (Previously presented): A compound according to Claim 11 where Q is hydrogen.

13. (Previously presented): A compound according to Claim 12 where R^6 is C_1-C_4 alkyl and R^5, $R^{5'}$, R^7 and $R^{7'}$ are each hydrogen.

14. (Currently amended): A compound according to Claim 13 where $R^{6'}$ is hydrogen, and R^6 and the ~~benzofuran~~ benzothiophene core are in the cis configuration with regard to each other.

15. (Previously presented): A compound according to Claim 13 where R^6 is methyl.

16. (Previously presented): A compound according to Claim 13 where $R^{6'}$ is methyl.

17. (Previously presented): A compound according to Claim 11 where one of $R^{5'}$ and Q, or $R^{6'}$ and Q, taken together with the carbon atoms to which they are attached form a double bond.

18. (Previously presented): A compound according to Claim 17 where of $R^{5'}$ and Q, taken together with the carbon atoms to which they are attached form a double bond, R^6 is C_1-C_4 alkyl, and $R^{6'}$ is methyl.

19. (Previously presented): A compound according to Claim 18 which is 3,3-dimethyl-4-(6-fluorobenzothien-7-yl)-1,2,3,6-tetrahydropyridine.